Docket No.: PB-0004-1 CIP

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By: Kathleen K. Muto Printed: ~~Nancy Ramos~~ KATHLEEN MUTO

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Michael G. Walker, Wayne Volkmuth, Tod M. Klingler
Title: POLYNUCLEOTIDES COEXPRESSED WITH MATRIX-REMODELING GENES

Serial No.:	To Be Assigned	Filed:	Herewith
Examiner:	To Be Assigned	Group Art Unit:	To Be Assigned

Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

SUBMISSION UNDER 37 CFR §1.821- 1.825 SEQUENCE LISTING

Sir:

In accordance with the requirements of 37 CFR §1.821- 1.825, Applicants hereby submit one (1) diskette containing the computer-readable information for the "Sequence Listing" of the above-identified application. The diskette complies with the requirements of 37 CFR §1.824 and is IBM PC compatible using a UNIX operating system with PERL Program.

Accompanying the application is the paper copy of the Sequence Listing as disclosed in the application.

The content of the "Sequence Listing" paper copy is identical to the computer readable copy, as required under 37 CFR § 1.821(f).

Respectfully submitted,

INCYTE GENOMICS, INC.

Date: March 26, 2001 David B. Stuntz Reg No. 43,168
for Lynn E. Murry, Ph.D.
Reg. No. 42,918
Direct Dial Telephone: (650) 845-4159

3160 Porter Drive
Palo Alto, California, 94304
Tel. No. 650-855-0555
Fax. No. 650-849-8886

PB-0004 CIP

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Klingler, Tod M.

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PB-0004 CIP

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PB-0004 CIP

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PB-0004 CIP

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<213> Homo sapiens

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<220> -
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<400> 21

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Leu Arg Glu Lys Trp Leu Leu Asp Gly Ile Ser Ser Gly Lys Glu
                 50                  55                  60
Gln Glu Glu Met Lys Lys Gln Asn Gln Gln Asp Gln His Gln Ile
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Gln Val Leu Glu Gln Ser Ile Leu Arg Leu Glu Lys Glu Ile Gln
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Asp Leu Glu Lys Ala Glu Leu Gln Ile Ser Thr Lys Glu Glu Ala
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Ile Leu Lys Lys Leu Lys Ser Ile Glu Arg Thr Thr Glu Asp Ile
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Ile Arg Ser Val Lys Val Glu Arg Glu Glu Arg Ala Glu Glu Ser
                125                 130                 135
Ile Glu Asp Ile Tyr Ala Asn Ile Pro Asp Leu Pro Lys Ser Tyr
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Ile Pro Ser Arg Leu Arg Lys Glu Ile Asn Glu Glu Lys Glu Asp
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Asp Glu Gln Asn Arg Lys Ala Leu Tyr Ala Met Glu Ile Lys Val
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Glu Lys Asp Leu Lys Thr Gly Glu Ser Thr Val Leu Ser Ser Ile
                185                 190                 195
Pro Leu Pro Ser Asp Asp Phe Lys Gly Thr Gly Ile Lys Val Tyr
                200                 205                 210
Asp Asp Gly Gln Lys Ser Val Tyr Ala Val Ser Ser Asn His Ser
                215                 220                 225
Ala Ala Tyr Asn Gly Thr Asp Gly Leu Ala Pro Val Glu Val Glu
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Glu Leu Leu Arg Gln Ala Ser Glu Arg Asn Ser Lys Ser Pro Thr
                245                 250                 255
Glu Tyr His Glu Pro Val Tyr Ala Asn Pro Phe Tyr Arg Pro Thr
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Thr Pro Gln Arg Glu Thr Val Thr Pro Gly Pro Asn Phe Gln Glu
                275                 280                 285
Arg Ile Lys Ile Lys Thr Asn Gly Leu Gly Ile Gly Val Asn Glu
                290                 295                 300
Ser Ile His Asn Met Gly Asn Gly Leu Ser Glu Glu Arg Gly Asn
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Asn Phe Asn His Ile Ser Pro Ile Pro Pro Val Pro His Pro Arg
                320                 325                 330
Ser Val Ile Gln Gln Ala Glu Glu Lys Leu His Thr Pro Gln Lys
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Phe Gly Lys Ser Glu His Gln Asn Ser Ser Pro Thr Cys Gln Glu
                380                 385                 390
Asp Glu Glu Asp Val Arg Tyr Asn Ile Val His Ser Leu Pro Pro
                395                 400                 405
Asp Ile Asn Asp Thr Glu Pro Val Thr Met Ile Phe Met Gly Tyr
                410                 415                 420
Gln Gln Ala Glu Asp Ser Glu Glu Asp Lys Lys Phe Leu Thr Gly
                425                 430                 435
Tyr Asp Gly Ile Ile His Ala Glu Leu Val Val Ile Asp Asp Glu
                440                 445                 450
Glu Glu Glu Asp Glu Gly Glu Ala Glu Lys Pro Ser Tyr His Pro
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Ile Ala Pro His Ser Gln Val Tyr Gln Pro Ala Lys Pro Thr Pro
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Leu Pro Arg Lys Arg Ser Glu Ala Ser Pro His Glu Asn Thr Asn
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His Lys Ser Pro His Lys Asn Ser Ile Ser Leu Lys Glu Gln Glu
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Glu Ser Leu Gly Ser Pro Val His His Ser Pro Phe Asp Ala Gln
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<220> -
<223> 1556751CD1

<400> 22

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Val Pro Ala Ala Arg Pro Gln Thr Met Val Thr Gly Pro Ser Cys
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Ser Ser Pro Gly Leu Gln Asn Phe Ser Pro Gln Arg Lys Glu Asn
                50                  55                  60
Arg Ala Cys Ala Cys Trp Gln Asn Ala Gly Pro Ala Pro Lys Asn
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Glu Glu Gly Ser Pro Arg Glu Phe Ile Tyr Leu Asn Arg Tyr Lys
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Arg Ala Gly Glu Ser Gln Asp Lys Cys Thr Tyr Thr Phe Ile Val
                  50                  55                  60
Pro Gln Gln Arg Val Thr Gly Ala Ile Cys Val Asn Ser Lys Glu
                  65                  70                  75
Pro Glu Val Leu Leu Glu Asn Arg Val His Lys Gln Glu Leu Glu
                  80                  85                  90
Leu Leu Asn Asn Glu Leu Leu Lys Gln Lys Arg Gln Ile Glu Thr
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Leu Gln Gln Leu Val Glu Val Asp Gly Gly Ile Val Ser Glu Val
                 110                 115                 120
Lys Leu Leu Arg Lys Glu Ser Arg Asn Met Asn Ser Arg Val Thr
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Gln Leu Tyr Met Gln Leu Leu His Glu Ile Ile Arg Lys Arg Asp
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Asn Ala Leu Glu Leu Ser Gln Leu Glu Asn Arg Ile Leu Asn Gln
                 155                 160                 165
Thr Ala Asp Met Leu Gln Leu Ala Ser Lys Tyr Lys Asp Leu Glu
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His Lys Tyr Gln His Leu Ala Thr Leu Ala His Asn Gln Ser Glu
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Ile Ile Ala Gln Leu Glu Glu His Cys Gln Arg Val Pro Ser Ala
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Arg Pro Val Pro Gln Pro Pro Pro Ala Ala Pro Pro Arg Val Tyr
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Gln Pro Pro Thr Tyr Asn Arg Ile Ile Asn Gln Ile Ser Thr Asn
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Glu Ile Gln Ser Asp Gln Asn Leu Lys Val Leu Pro Pro Pro Leu
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His Asp Thr Ser Ser Ile Tyr Leu Val Lys Pro Glu Asn Thr Asn
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Trp Thr Val Ile Gln Arg Arg Leu Asp Gly Ser Val Asn Phe Phe
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Arg Asn Trp Glu Thr Tyr Lys Gln Gly Phe Gly Asn Ile Asp Gly
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Glu Tyr Trp Leu Gly Leu Glu Asn Ile Tyr Trp Leu Thr Asn Gln
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Gly Asn Tyr Lys Leu Leu Val Thr Met Glu Asp Trp Ser Gly Arg
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Lys Val Phe Ala Glu Tyr Ala Ser Phe Arg Leu Glu Pro Glu Ser
                380                 385                 390
Glu Tyr Tyr Lys Leu Arg Leu Gly Arg Tyr His Gly Asn Ala Gly
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Asp Ser Phe Thr Trp His Asn Gly Lys Gln Phe Thr Thr Leu Asp
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Arg Asp His Asp Val Tyr Thr Gly Asn Cys Ala His Tyr Gln Lys
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Gly Gly Trp Trp Tyr Asn Ala Cys Ala His Ser Asn Leu Asn Gly
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Val Trp Tyr Arg Gly Gly His Tyr Arg Ser Arg Tyr Gln Asp Gly
                455                 460                 465
Val Tyr Trp Ala Glu Phe Arg Gly Gly Ser Tyr Ser Leu Lys Lys
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Val Val Met Met Ile Arg Pro Asn Pro Asn Thr Phe His
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